



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,080	02/15/2002	Feng-Wei Chen	RSW920020019US1	3477
7590	10/04/2003		EXAMINER	
Gerald R. Woods IBM Corporation T81/503 PO Box 12195 Research Triangle Park, NC 27709			TO, TUAN C	
			ART UNIT	PAPER NUMBER
			3663	

DATE MAILED: 10/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	10/077,080	CHEN ET AL.	
<b>Period for Reply</b>	Examiner	Art Unit	
	Tuan C To	3663	
<i>-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --</i>			
<b>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.</b>			
<ul style="list-style-type: none"> <li>- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.</li> <li>- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).</li> <li>- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul>			
<b>Status</b>			
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>15 February 2002</u> .			
2a) <input type="checkbox"/> This action is <b>FINAL</b> .                    2b) <input checked="" type="checkbox"/> This action is non-final.			
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
<b>Disposition of Claims</b>			
4) <input checked="" type="checkbox"/> Claim(s) <u>1-17</u> is/are pending in the application.			
4a) Of the above claim(s) _____ is/are withdrawn from consideration.			
5) <input type="checkbox"/> Claim(s) _____ is/are allowed.			
6) <input checked="" type="checkbox"/> Claim(s) <u>1-8, 10-14 and 16</u> is/are rejected.			
7) <input checked="" type="checkbox"/> Claim(s) <u>9, 15 and 17</u> is/are objected to.			
8) <input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.			
<b>Application Papers</b>			
9) <input type="checkbox"/> The specification is objected to by the Examiner.			
10) <input checked="" type="checkbox"/> The drawing(s) filed on <u>15 February 2002</u> is/are: a) <input checked="" type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) <input type="checkbox"/> The proposed drawing correction filed on _____ is: a) <input type="checkbox"/> approved b) <input type="checkbox"/> disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.			
12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner.			
<b>Priority under 35 U.S.C. §§ 119 and 120</b>			
13) <input type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) <input type="checkbox"/> All    b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of: 1. <input type="checkbox"/> Certified copies of the priority documents have been received. 2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. 3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.			
15) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
<b>Attachment(s)</b>			
1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)		4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .	
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .		6) <input type="checkbox"/> Other: _____ .	

**DETAILED ACTION*****Specification***

The disclosure is objected to because of the following informalities: In the specification, page 1, lines 5-8, there are some blank spaces that should be filled by the U.S Patent numbers and the serial application numbers.

Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 12, 4-8, 10-12, and 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Nocek et al. (US 6587782B1).

Claims 1 and 12: The reference to Nocek et al. has been cited as disclosing some features such as claimed in the present invention. In fact, Nocek et al. teach that the geographic data base 162 (see figure 3) stores a plurality of subset data which could be the the data of the first street, the other

streets, and the intersections. According to Nocek et al. the intersection with its geographic location stored in the data based is determined plus the address of the first street can be found in the street data 269.

Claim 16: The navigation system of Nocek et al. includes the computer-readable media that is known as processor 112, RAM 134, Non-Volatile Memory 116, User interface 131. The computer readable media as said is similar as the computer-readable media as recited in the claims of the present invention.

Claims 2 and 4: In Nocek et al.'s, the street geometry information originates from textual address information. For example, the point of interest may include the name of the municipality, the state of the represented interest, and the postal code.

Claim 5: As discussed in the previous paragraph, the geographic database comprises several subset data, particularly the location data of a point of intersection, the first street address.

Claim 6: As shown in figure 3, the street geometry information is retrieved from a database table.

Claim 7: As mentioned in the embodiments of Nocek et al., the geometry information is formed from the name of the point of interest, the state where the point of interest is located, and the postal code.

Claims 8 and 10: The act of comparing the obtained street geometry as recited in the claim can be seen in the act of retrieving one of the subset data as mentioned above.

Claim 11: Referring to figure 3 and figure 4 of Nocek et al, the geographic data is stored in a relational database table.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nocek et al. (US 6587782B1) and in view of Ito et al. (US 6249740B1).

Claims 3 and 13: The U.S Patent No. '782 to Nocek et al. has been cited as disclosing all of the features as claimed in claim 1. However, Nocek et al. do not disclose that geographic location comprises latitude and longitude values of the intersection point. The secondary reference to Ito et al overcomes the missing feature from Nocek et al. by disclosing that the intersection position data includes the longitude and latitude values (See figure 2 (B)). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system of Nocek et al. to include the teaching of Ito et al. for accurately determining the position of the vehicle in a specified region. And the geographic data has been stored along with said region may be retrieved as user's need.

Claim 14: With respect to the subject matter of claim 14, the examiner has recognized that Nocek et al do not disclose the limitation "the means for comparing the obtained street geometry further comprises means for comparing a geometric line representation of the first street to the geometric line representation of each of the one or more other street". Ito et al. has been provided as disclosing the road number of road existing intersection, for example, the road R3 and road R4 are represented by the two set of intersections (C2, C3) and (C3, C4). It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the teaching of Nocek et al. and

Ito et al. in order to display several road segments, intersections, and the related geographic data over the display device mounted on the dash board of the vehicle.

***Allowable Subject Matter***

Since none of the reference has been found that teaches or fairly suggests the limitation as claims in claims 9, 15, and 17, thus they are now objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

The prior art made of record, which are listed in PTO-892, and not relied upon are considered pertinent to applicant's disclosure includes the following: Edge's, Yamashita et al.'s, Bellesfield et al.'s, Stefan et al.'s, Wilson's, Wako et al.'s, Sugiyama et al.'s.

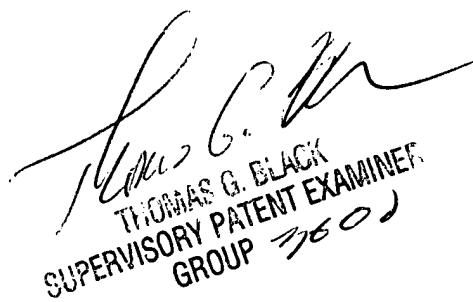
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (703) 308-6273. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (703) 305-8233. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-7687 for regular communications and none for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

/tc

September 24, 2003



THOMAS G. BLACK  
SUPERVISORY PATENT EXAMINER  
GROUP 3602